IN THE CLAIMS:

1.　　(Currently Amended) A method of updating covariance of a signal in a sequential manner comprising the steps of:

scaling a ~~the~~ covariance of ~~the~~ signals by a scaling factor;

updating the scaling factor based on a ~~the~~ signal to be recognized;

updating the scaling factor ~~matrix~~ each time new data of the signal is available; and

calculating a new scaling factor by adding a correction item to a previous scaling factor.

2.　　(Original) The method of claim 1 wherein the signal comprises a speech signal.

3.　　(Currently Amended) The method of claim 1 wherein the scaling factor is a scaling matrix ~~and could be any matrix that ensures the scaled matrix is a valid covariance~~.

4.　　(Currently Amended) The method of claim 1 wherein the new available data of the signals is ~~could be~~ based on any length.

5.　　(Currently Amended) The method of claim 1 wherein the new available data of the signals is ~~could be~~ a frame.

6.　　(Currently Amended) The method of claim 1 wherein the new available data of the signals is ~~could be~~ an utterance.

7.　　(Currently Amended) The method of claim 1 wherein the new available data of the signals is ~~could be~~ a fixed time period.

8.　　(Currently Amended) The method of claim 1 wherein the new available data is ~~could be~~ every 10 minutes of a speech signal.

9.　　(Original) The correction of claim 1 wherein the correction is the product of any

2

sequence whose limit is zero, whose summation is infinity and whose square summation is not infinity and a summation of quantities weighted by a probability.

10.   (New) The method of claim 3 wherein the scaling matrix is a diagonal.

11.   (New) The method of claim 1 wherein the scaling factor is in exponential form.

12.   (New) A method of updating a model for speech recognition, comprising:

adjusting a covariance associated with the model by a scaling factor to provide an adjusted variance;

updating the scaling factor based on a speech signal to be recognized, wherein the speech signal is to be recognized using the model;

updating the scaling factor each time new data of the speech signal is available;

calculating a new scaling factor by adding a correction item to a previous scaling factor; and

updating the model using the adjusted covariance.